

PCT

**RAW SEQUENCE LISTING**PATENT APPLICATION: **US/10/500,428**DATE: 07/08/2004

TIME: 15:27:19

Input Set : A:\229576.txt

Output Set: N:\CRF4\07082004\J500428.raw

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2 <110> APPLICANT: Sumitomo Pharmaceuticals CO., LTD.
     3 <120> TITLE OF INVENTION: Therapeutic Agent for Anorexia Nervosa or Life-Style Related
             Diseases, and Method for Screening Same
W--> 5 <130> FILE REFERENCE: 09517
C--> 6 <140> CURRENT APPLICATION NUMBER: US/10/500,428
C--> 6 <141> CURRENT FILING DATE: 2004-06-28
      6 <150> PRIOR APPLICATION NUMBER: JP 2001-397523
     7 <151> PRIOR FILING DATE: 2001-12-27
     9 <160> NUMBER OF SEQ ID NOS: 29
     10 <170> SOFTWARE: PatentIn version 3.1
     12 <210> SEQ ID NO: 1
     13 <211> LENGTH: 1038
     14 <212> TYPE: RNA
     15 <213> ORGANISM: Homo sapiens
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     17 <221> NAME/KEY: CDS
     18 <222> LOCATION: (1)..(1035)
     20 <400> SEQUENCE: 1
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     22 Met Tyr Lys Asp Cys Ile Glu Ser Thr Gly Asp Tyr Phe Leu Leu Cys
                                            10
     24 gac gcc gag ggg cca ugg ggc auc auu cug gag ucc cug gcc aua cuu
                                                                               96
     25 Asp Ala Glu Gly Pro Trp Gly Ile Ile Leu Glu Ser Leu Ala Ile Leu
                    20
                                        25
     27 ggc auc gug guc aca auu cug cua cuc uua gca uuu cuc uuc cuc aug
                                                                              144
     28 Gly Ile Val Val Thr Ile Leu Leu Leu Ala Phe Leu Phe Leu Met
                                    40
     30 cga aag auc caa gac ugc agc cag ugg aau guc cuc ccc acc cag cuc
                                                                              192
     31 Arg Lys Ile Gln Asp Cys Ser Gln Trp Asn Val Leu Pro Thr Gln Leu
            50
                                55
     33 cuc uuc cuc cug agu guc cug ggg cuc uuc gga cuc gcu uuu gcc uuc
                                                                              240
     34 Leu Phe Leu Leu Ser Val Leu Gly Leu Phe Gly Leu Ala Phe Ala Phe
                            70
    36 auc auc gag cuc aau caa caa acu gcc ccc gua cgc uac uuu cuc uuu
                                                                              288
    37 Ile Ile Glu Leu Asn Gln Gln Thr Ala Pro Val Arg Tyr Phe Leu Phe
    39 ggg guu cuc uuu gcu cuc ugu uuc uca ugc cuc uua gcu cau gcc ucc
                                                                              336
    40 Gly Val Leu Phe Ala Leu Cys Phe Ser Cys Leu Leu Ala His Ala Ser
    41
                    100
                                        105
     42 aau cua gug aag cug guu cgg ggu ugu guc ucc uuc ucc ugg acg aca
                                                                              384
     43 Asn Leu Val Lys Leu Val Arg Gly Cys Val Ser Phe Ser Trp Thr Thr
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45 auu cug ugc auu gcu auu ggu ugc agu cug uug caa auc auu auu gcc

432

Input Set : A:\229576.txt

46 47	Ile	Leu 130	Cys	Ile	Ala	Ile	Gly 135	Cys	Ser	Leu	Leu	Gln 140	Ile	Ile	Ile	Ala	
48	acu	gag	uau	gug	acu	cuc	auc	aug	acc	aga	ggu	aug	aug	uuu	gug	aau	480
												Met					
50	145					150				_	155					160	
51	aug	aca	CCC	ugc	cag	cuc	aau	gug	gac	uuu	guu	gua	cuc	cug	guc	uau	528
52	Met	Thr	Pro	Cys	Gln	Leu	Asn	Val	Asp	Phe	Val	Val	Leu	Leu	Val	Tyr	
53					165					170					175		
54	guc	cuc	uuc	cug	aug	gcc	cuc	aca	uuc	uuc	guc	ucc	aaa	gcc	acc	uuc	576
55	Val	Leu	Phe	Leu	Met	Ala	Leu	Thr	Phe	Phe	Val	Ser	Lys	Ala	$\mathtt{Thr}$	Phe	
56				180					185					190			
			_	_				_	_			agg					624
	Cys	Gly		Cys	Glu	Asn	Trp	_	Gln	His	Gly	Arg		Ile	Phe	Ile	
59			195					200					205				
												ugg					672
	Thr		Leu	Phe	Ser-	He		He	Trp	Val	Val	Trp	He	Ser	Met	Leu	
62		210					215					220					700
												cag Gln					720
	225	Arg	Gry	ASII	PIO	230	Pne	GIII	Arg	GIII	235	GIII	пр	Asp	Asp	240	
		ana	waa	21111	ממזו		ana	200	220	aca.		guu	11110	CUC	CUG		768
												Val					700
68	val	vai	Cys	110	245	пси	vai	1111	ASII	250	11p	vai	rne	пец	255	пси	
	uac	auc	anc	ccu		cuc	uge	auu	cuc		aga	ucg	11011	aga		gag	816
			_		_		-				_	Ser	_	-	_		
71				260			- 2		265	- 4 -			4	270			
72	ugc	ccu	uua	caa	ggc	aau	gcc	ugc	ccc	guc	aca	gcc	uac	caa	cac	agc	864
	_						_	-		-		Āla				-	
74			275					280					285				
75	uuc	caa	gug	gag	aac	cag	gag	cuc	ucc	aga	gcc	cga	gac	agu	gau	gga	912
76	Phe	Gln	Val	Glu	Asn	Gln	Glu	Leu	Ser	Arg	Ala	Arg	Asp	Ser	Asp	Gly	
77		290	•				295					300					
												acu					960
		Glu	Glu	Asp	Val		Leu	Thr	Ser	Tyr		Thr	Pro	Ile	Gln		
	305					310					315					320	
												cca					1008
	GIN	Thr	vai	Asp		Thr	GIN	GIU	Cys		ше	Pro	GIN	Ата	_	Leu	
83	200	~~~	<b>a</b> aa	<b>a</b> aa	325	~~~	~~~	~~~	~	330					335		1020
				caa Gln													1038
86	ser	PIO	GIII	340	ASP	нта	Gry	GIY	345								
	-210	)	O TI	NO:	. ,				242								
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				ISM:	Homo	sar	oiens	3									
				NCE:													
						Ile	Glu	Ser	Thr	Gly	Asp	Tyr	Phe	Leu	Leu	Cys	
95		-	-	•	5					10	•	-			15	•	
97	Asp	Ala	Glu	Gly	Pro	Trp	Gly	Ile	Ile	Leu	Glu	Ser	Leu	Ala	Ile	Leu	
				-		_											

Input Set : A:\229576.txt

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25
    100 Gly Ile Val Val Thr Ile Leu Leu Leu Ala Phe Leu Phe Leu Met
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    103 Arg Lys Ile Gln Asp Cys Ser Gln Trp Asn Val Leu Pro Thr Gln Leu
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    106 Leu Phe Leu Leu Ser Val Leu Gly Leu Phe Gly Leu Ala Phe Ala Phe
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    112 Gly Val Leu Phe Ala Leu Cys Phe Ser Cys Leu Leu Ala His Ala Ser
                                        105
    115 Asn Leu Val Lys Leu Val Arg Gly Cys Val Ser Phe Ser Trp Thr Thr
    116 115
                                    120
    118 Ile Leu Cys Ile Ala Ile Gly Cys Ser Leu Leu Gln Ile Ile Ile Ala
                                135
    121 Thr Glu Tyr Val Thr Leu Ile Met Thr Arg Gly Met Met Phe Val Asn
                            150
                                                155
    124 Met Thr Pro Cys Gln Leu Asn Val Asp Phe Val Val Leu Leu Val Tyr
                        165
                                            170
    127 Val Leu Phe Leu Met Ala Leu Thr Phe Phe Val Ser Lys Ala Thr Phe
                   180
                                        185
    130 Cys Gly Pro Cys Glu Asn Trp Lys Gln His Gly Arg Leu Ile Phe Ile
                                    200
    133 Thr Val Leu Phe Ser Ile Ile Ile Trp Val Val Trp Ile Ser Met Leu
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    136 Leu Arg Gly Asn Pro Gln Phe Gln Arg Gln Pro Gln Trp Asp Asp Pro
    137 225
                            230
                                                 235
    139 Val Val Cys Ile Ala Leu Val Thr Asn Ala Trp Val Phe Leu Leu Leu
                        245
                                            250
    142 Tyr Ile Val Pro Glu Leu Cys Ile Leu Tyr Arg Ser Cys Arg Gln Glu
                    260
                                        265
    145 Cys Pro Leu Gln Gly Asn Ala Cys Pro Val Thr Ala Tyr Gln His Ser
                275
                                    280
                                                        285
    148 Phe Gln Val Glu Asn Gln Glu Leu Ser Arg Ala Arg Asp Ser Asp Gly
            290
                                295
                                                    300
    151 Ala Glu Glu Asp Val Ala Leu Thr Ser Tyr Gly Thr Pro Ile Gln Pro
                                                315
                            310
                                                     .
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    162 <211> LENGTH: 1324
    163 <212> TYPE: RNA
    164 <213> ORGANISM: Mus musculus
 --> 165 <220> FEATURE:
    166 <221> NAME/KEY: CDS
    167 <222> LOCATION: (148)..(1047)
W--> 168 <400> SEQUENCE: 3
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Input Set : A:\229576.txt

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175								1				5					
													ugg				222
		Asp	$\mathtt{Tyr}$	Tyr	Leu		Cys	Asp	Asn	Glu	Gly	Pro	$\mathtt{Trp}$	Ala	Ile		
178						15					20					25	
	_			_	_						-		aua	_			270
	Leu	Glu	Ser	Leu		Val	Ile	Gly	Ile		Val	Thr	Ile	Leu		Leu	
181					30					35					40		
													ugc				318
	Leu	Ala	Phe		Phe	Leu	Met	Arg		Val	Gln	Asp	Cys		Gln	Trp	
184				45					50					55			
													gug				366
	Asn	Val		Pro	Thr	GIn	Phe		Phe	Leu	Leu	Ala	Val	Leu	Gly	Leu	
187			60					65					70				
													cau				414
	Phe	-	Leu	Thr	Phe	Ala		He	He	GIn	Leu		His	GIn	Thr	Ala	
190		75					80					85					
													auc				462
		vaı	Arg	Tyr	Pne		Pne	GLY	vai	Leu		Ala	Ile	Cys	Pne		
193						95					100					105	-10
													guc				510
	Cys	ьeu	ьeu	AIa		Ala	ser	ASI	ьeu		ьуѕ	Leu	Val	arg	_	Arg	
196	~~.~				110					115					120		
													auc Ile				. 558
199	vaı	ser	PILE	125	пр	1111	TIIT	iie	130	Pile	116	Ald	TIE	135	val	ser	
	ana	ma	cad		2110	21111	aca	2112		11211	ana	200	cuc		2110	200	606
													Leu				000
202		LCu	140					145	Olu	-1-	•	****	150	110	1100		
	aga	aac		aug	uuc	gag	cau		aca	cca	แลบ	cag	cuc	aau	ana	gac	654
													Leu				
205	5	155					160				-1-	165				F	
	uuu		uqu	cuc	cuq	auc	uau	quc	cuc	uuc	cuq		gcc	cuc	acu	uuc	702
																Phe	
	170		-			175	-				180					185	
209	uuc	guc	ucc	aag	gcc	acc	uuc	ugu	ggc	сса	ugu	gag	aac	ugg	aaa	caq	750
210	Phe	Val	Ser	Lys	Āla	Thr	Phe	Cys	Gly	Pro	Cys	Glu	Asn	Trp	Lys	Gln	
211				_	190			-	_	195	_			_	200		
212	cac	gga	agg	cuc	aua	uuu	gcu	acu	gug	cug	guc	ucu	auc	auu	auc	ugg	798
213	His	Gly	Arg	Leu	Ile	Phe	Ala	Thr	Val	Leu	Val	Ser	Ile	Ile	Ile	Trp	
214				205					210					215			
216	gug	gug	ugg	auc	ucc	aug	cuc	uug	aga	ggc	aac	ccc	cag	cuc	cag	cga	846
217	Val	Val	Trp	Ile	Ser	Met	Leu	Leu	Arg	Gly	Asn	Pro	Gln	Leu	Gln	Arg	
218			220					225					230				
220	cag	ccc	cac	ugg	gac	gau	gca	guc	auc	ugc	auu	ggc	cug	guc	acc	aac	894
221	Gln	Pro	His	$\operatorname{Trp}$	Asp	Asp	Ala	Val	Ile	Cys	Ile	Gly	Leu	Val	Thr	Asn	

Input Set : A:\229576.txt

Output Set: N:\CRF4\07082004\J500428.raw

	222		235					240					245					
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																Ile		
	226	250	-				255		-			260					265	
	228	uac	agg	uca	uqu	agg	caq	gag	ugu	ccu	aca	caa	aac	aac	auc	ugc	cag	990
					_		_		_						-	Cys	_	
	230	-1-	5		-1-	270			0,0		275	<b></b>	1			280	· · · ·	
		anc	CCII	anc	บลด		cac	age	11110	agg		gan	acc	cad	паа	ccc	acc	1038
		_		_				_			_	_		_	_	Pro		1030
	234	Vul	110	·u_	285	0111	****9	DCI	1110	290	MCC	nop	1111	OIII	295	210	1111	
		2012	asa	וומכ		1000	פמם מ	eggga	ובווחב		721100	7/1211/	0	71120:				1087
		Arq			ugai	1000	age (	-999	iguai	ac u	Jauci	cau	. agi	Juaco	acua			1007
	237	Arg	GIU	300														
		200			~	1000	~~ ~.						200				~~	1147
																	cuggaa	1147
																	ıcaaug	1207
									_		_						acccag	1267
					-	_	ıc cı	ıgca	caaui	ı aaa	aaucı	ugu	ugco	cacco	cua a	aaaa	aaa	1324
				EQ II														
				ENGTI		00												
				YPE:				_										
							mus	culus	5									
>				EQUE			_			_	_		•			_		
			Tyr	Glu	Asp	Cys	Val	Lys	Ser	Thr		Asp	Tyr	Tyr	Leu	Phe	Cys	
	253					5		_	_	_	10	_			_	15_	_	
		Asp	Asn	Glu	_	Pro	Trp	Ala	Ile		Leu	Glu	Ser	Leu		Val	Ile	
	256				20					25		_			30			
		Gly	Ile		Val	Thr	Ile	Leu		Leu	Leu	Ala	Phe		Phe	Leu	Met	
	259			35_	_				40					45				
		Arg	_	Val	Gln	Asp	Cys	Ser	Gln	Trp	Asn	Val		Pro	Thr	Gln	Phe	
	262		50			_		55					60					
	264	Leu	Phe	Leu	Leu	Ala	Val	Leu	Gly	Leu	Phe	Gly	Leu	Thr	Phe	Ala	Phe	
	265						70					75					80	
	267	Ile	Ile	Gln	Leu		His	Gln	Thr	Ala	Pro	Val	Arg	Tyr	Phe	Leu	Phe	
	268					85					90					95		
	270	Gly	Val	Leu	Phe	Ala	Ile	Cys	Phe	Ser	Cys	Leu	Leu	Ala	His	Ala	Ser	
	271				100					105					110			
	273	Asn	Leu	Val	Lys	Leu	Val	Arg	Gly	Arg	Val	Ser	Phe	Cys	Trp	Thr	Thr	
	274			115					120					125				
	276	Ile	Leu	Phe	Ile	Ala	Ile		Val	Ser	Leu	Leu	Gln	Thr	Ile	Ile	Ala	
	277		130	-				135					140					
	279	Ile	Glu	Tyr	Val	Thr	Leu	Ile	Met	Thr	Arg	Gly	Leu	Met	Phe	Glu	His	
	280	145					150					155					160	
	282	Met	Thr	Pro	Tyr	Gln	Leu	Asn	Val	Asp	Phe	Val	Cys	Leu	Leu	Ile	Tyr	
					_	165				_	170		_			175	-	
	283															_		
		Val	Leu	Phe	Leu		Ala	Leu	Thr	Phe	Phe	Val	Ser	Lys	Ala	$\mathtt{Thr}$	Phe	
		Val	Leu	Phe	Leu 180		Ala	Leu	Thr	Phe 185	Phe	Val	Ser	Lys	Ala 190	Thr	Phe	
	285 286				180	Met				185				-	190			
	285 286 288				180	Met				185				-	190 Ile	Thr		
	285 286 288 289	Cys	Gly	Pro 195	180 Cys	Met Glu	Asn	Trp	Lys 200	185 Gln	His	Gly	Arg	Leu 205	190 Ile		Ala	

W-->

Input Set : A:\229576.txt

Output Set: N:\CRF4\07082004\J500428.raw

## Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29

## VERIFICATION SUMMARY DATE: 07/08/2004 PATENT APPLICATION: US/10/500,428 TIME: 15:27:20

Input Set : A:\229576.txt

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L:5 M:283 W: Missing Blank Line separator, <130> field identifier
L:6 M:270 C: Current Application Number differs, Replaced Current Application No
L:6 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:16 M:283 W: Missing Blank Line separator, <220> field identifier
L:93 M:283 W: Missing Blank Line separator, <400> field identifier
L:165 M:283 W: Missing Blank Line separator, <220> field identifier
L:168 M:283 W: Missing Blank Line separator, <400> field identifier
L:251 M:283 W: Missing Blank Line separator, <400> field identifier
L:313 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5
L:314 M:283 W: Missing Blank Line separator, <220> field identifier
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L:391 M:283 W: Missing Blank Line separator, <400> field identifier
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L:612 M:283 W: Missing Blank Line separator, <400> field identifier
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L:624 M:283 W: Missing Blank Line separator, <400> field identifier
L:632 M:283 W: Missing Blank Line separator, <220> field identifier
L:636 M:283 W: Missing Blank Line separator, <400> field identifier
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